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- 3 Automatic Target Transfer System, C. CHRISTIANSON, 7/26/65.
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- 5 Status Report (2) Concerning High Gradient Preinjector and 50 MeV Fast Emittance Device, TH. SLUYTERS, 9/28/65.
- 6 A Hollow Metal O-Ring as a Vacuum Seal for the AGS, J.C. SCHUCHMAN, 10/11/65
- 7 Operation of Three (3) Electronic Leak Detectors, J.C. SCHUCHMAN, 10/20/65.
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- 14 Multiturn Extraction from an AGS, A.W. MASCHKE, 3/9/66.
- 15 AGS Operations Summary for 1965, R.R. ADAMS, 3/11/66.
- 16 A Method of Interchanging Horizontal and Vertical Phase Space Area, A.W. MASCHKE, 3/25/66.
- 17 Details of the Oxide Cathodes Used in the AGS Duoplasmatron Source, H. WROE, 3/29/66.
- 18 Some Additional Emittance Results with the Mark II Duoplasmatron Source, H. WROE, 3/30/66.
- 19 Short Column Progress Report, TH. SLUYTERS, 4/18/66.
- 20 Suppression of Vertical Coherence in the AGS, E.C. RAKA, 4/18/66.
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- 22 Beam Measurement with the Fast Kicker, A. WATTS, 6/16/66.

- 23 The Nest Fast: Kicker, E.B. FORSYTH, 7/25/66
- 24 Oval Metal Seals (Del. Mfg. Co), J.C. SCHUCHMAN, 8/23/66
- 00 High Gradient: Pre-Accelerator, TH. SLUYTERS, 9/27/66
- 25 Low Energy K Beam, D. BERLEY, 9/29/66
- 26 Metal Seals for the 1/2 Superperiod Pumping Mock-Up, J.C. SCHUCHMAN, 10/5/66
- 27 "Lo-Load" Metal Seals, J.C. SCHUCHMAN, 10/20/66
- 28 Progress Report (7) Concerning Short Column, TH. SLUYTERS, 12/28/66
- 29 NEWTRAP, a PDP-8 MONITOR Debugging Program, C. STEWART, 1/24/67
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~~Beam Loss on F10 Ejector Magnet, L.N. Blumberg, 6/7/67~~ 67-2
- 37 Some Remarks About Coherent Oscillations, A.W. Maschke, 6/5/67
- 38 Short Column Progress (9), Th. Sluyters, 7/6/67.
- 39 Line Harmonics, M. Plotkin, 7/14/67
- 40 Calculations for Vacuum Pump Size and Spacing in Beam Pipe Lines at NAL, C. GOULD, 11/6/67.
- 41 Sensitivity Comparison of Helium Leak Detector vs Mass Spectrometer (Residual Gas Analyzer), J.C. SCHUCHMAN, 11/15/67.
- 42 Quarterly Status Report (10), TH. SLUYTERS, 1/2/68.
Project Group
- 43 Epoxy Bonding Tests for the High Gradient Accelerator Column, S. SENATOR, 1/8/68.
- 44 Backleg Windings. F. PALLAS, 1/31/68
- 45 Magnetic Inflector for 200 MeV Injection. H. HSIEH, 2/8/68
- 46 Construction and Testing of the High Gradient Accelerating Column Test Section, R. AMARI, 2/21/68.
- 47 Metal C-Ring Vacuum Seals for AGS, J. SCHUCHMAN, 3/11/68.
- 48 Design of the New Fast Kicker, M. FRUITMAN, 3/19/68.
- 49 Experimenter's Timing & Intensity Information, A. WATTS, 3/29/68

50 Aero Vac AVA-1 Residual Gas Analyzer Operating
Procedure

J.C. Schuchman 4/5/68

51 Notes on Extracted Beams

~~A Schematic Outline of the Extension of the SEB
into the New East Experimental Hall~~

7/11/68

70	Deterioration of Electrical Insulation of Main Feasibility Test: Fast Backleg Beam Deflection	E.J. Rutan JG Cottingham and GP Bagley	11/12/69 12/8/69 12/23/69
	MONITOR TELESCOPE	RJ Warkentien & GW Bennett	1/30/70 2/12/70
	Proposal for Increasing the Lifetime of a Sputter-Ion Pump When Pumping Hydrogen	C.L. Gould	3/3/70
75	A Splitter System For The Slow Extracted Beam	J J Friedli & HCH Hsieh	3/12/70
76	Vacuum System For The H10 Fast Ejector Magnet Assembly	J. Schuchman	3/16/70
77	Voltage Ripple on Slow Beam Extraction Equipment	J.G. Cottingham	3/25/70
78	Computer Controlled Power Supplies	17. Frankel	5/1/70
79	Fast Backleg Winding Supply Design Parameters	JG Cottingham A. Tranis GP Bagley	9/2/70
80	AGS - Central Computer Facility	R. Frankel	9/22/70
81	Investigation of Non-Uniform C-Ring Seal Compression in AGS Conversion Chamber	J.C. Schuchman	9/28/70
82	Damage Reductions in Electrostatic Septum Arcs.	J.G. Cottingham	10/7/70
83	Temperature Measurement of Tungsten and Beryllium Targets in ALL.	L. Repeta G. Bennett	12/1/70
84	Fringing Fields from the Electrostatic Septum	J.G. Cottingham	4/21/71
85	Tests of Bracket and Coil Insulation - Magnets A-1, B-1, G-10 and G-11 After April 1971 Shutdown. (Continuation of study recommended-AGS Tech Note No. 70 1969).	E.J. Rutan	6/11/71
86	Deuteron Acceleration in the AGS	JG Cottingham	8/3/71
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88	Informal Datacon System Report	R.. Frankel	12/6/71
v 89	G10 90° Monitor Telescope	J. Guthy GW Bennett	1/14/72
90	Beam Intensity in the AGS	J. Herrera	1 20/72

91	Injection Pulse Generator System.	G.P. Bagley	2/4/72
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93	CBM Polyethylene Foil Calibration	L. Blumberg, J. Gabusi, J. Glenn, G. Levine, D. Rahm	5/9/72
94	A Note on Deuteron Acceleration in Linac and AGS	Th. Sluyters	6/8/72
95	Quadrupole Pulser Modifications	<i>Cancelled 1/29/74 - (2)</i> M. Iwantschuk	6/15/72
96	The E20 Wide Band Pick-Up Electrode	E. Raka	6/26/72
97	G10 90° Monitor Telescope	J. Guthy, J. Glenn, GW Bennett	7/26/72
98	The New Beam Ticklers	E.C. Raka	7/26/72
99	Siemens Power Supply Motor-Generator Set Motor Rotor Failure	R.R. Adams J.G. Cottingham D.A. Davis R.B. Gottschalk	9/29/72
100	Tolerances for the Quadrupoles in Linac & HEBT	J. Claus	12/14/72
101	Choice of Rf Cavity Impedances	M.Q. Barton	1/8/73
102	Beam Intensity in the AGS	A. van Steenbergen	1/20/73
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104	Cs Injection into a Duoplasmatron	G. Lawrence (LASL), T. Hayward (LASL), K. Prelec Th. Sluyters	6/6/73
105	Description of the Slow Extracted Beam Security System Circuits	A. McGahey	6/15/73
106	<i>Should have been logged in EPIS. SEE DR 8 NO. 65</i> HEBT Emittance Programs: LINEM and EMITT	H. Brown	6/20/73
107	Possible Injection Lines for \bar{H} Injection	M.Q. Barton	6/20/73
108	Acceleration of Heavy Ions in the AGS	K. Prelec	9/5/73
109	Linac High Voltage Cable Assembly	R. Damm	1/31/74
110	Stripping of \bar{H} in a Magnetic Field	K. Prelec	6/4/74
110	Maintenance-Operating Instructions Fast Backleg Winding Supply	G. Bagley	7/11/74

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114	Improvement in the Bond Strength of Metal to Ceramic Epoxy Joints	R. McK-Wilson	10/25/74
115	Suppression of Transverse Instabilities by Octupole Lenses	E. Raka M. Month	
116	Multiple Scattering in Thin Layers	LW Smith	8/28/75
117	Calibration of the Secondary Emission Chambers C010 and A300	V. Agoritsas J. Balsamo R. Witkover	1/22/76
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119			
120	Stochastic Cooling for Pedestrians	L.W. Smith	6/21/76
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124	A Walker's Guide to Decoherence Times in Stochastic Cooling	L.W. Smith	9/1/76
125			

AGS DIVISION TECH NOTES

126	Slow External Beam Layout and Optics at the AGS	YY Lee	10/28/76
127	New 200 MeV Branch Line to BLIP	YY Lee	11/10/76
128	Background in Neutrino Beam Due to Beam Loss	YY Lee P. Wanderer	12/2/76
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133	Studies of Slow Beam Extraction with and Without an Electrostatic Septum	J.W. Glenn H. Weisberg	5/6/77
134	AGS Cable Television System	R. Sanders	5/17/77
135	Measurements of high energy proton fluxes using foil activation techniques (FAT)	V. Agoritsas	6/20/77
136	Evaluation tests of two special secondary emission chambers	V. Agoritsas	6/28/77
137	Proposal to eliminate parasitic harmonics in the AGS rf low level by means of a phase-locked loop	P. Guidee	7/28/77
138	Rustrak Data Monitoring		
139	Maximum speed of mechanical devices in a digital comparison positioning system		
140	Potentiometers for position readout	J. Curtiss	
141	Tests of an electrostatic wire septum model in the AGS	J.W. Glenn H. Weisberg	
142	AGS Internal Targets.		
143	Lead Plated C-Ring Evaluation		
144	Video splatter on Versatec hard copy		
145	Gauss Clock Calibration		
146	An Eight-Channel High Voltage Bias Supply		

AGS DIVISION TECH NOTES

147	SEB Spill Servo	J. Gabusi E. Gill J.W. Glenn R. Samadani A. Soukas	9/29/78
148	Continuity of Electric Power at the AGS Plus an Addendum	J. Curtiss	11/8/78
149	Low Field Correction Readback Evaluation	'W. Frey	11/14/78
150	AGS Main Magnet Power Supply Limitations of Long Flat Top Operation	J. Cottingham D. Davis A. Feltman	1/22/79
151	HOP, The Modified Program of H.O.P.I.	T. Nguyen	1/24/79
152	F5 Septum Failure Analysis	JG Cottingham	3/22/79
153	AGS Cable Television System	W. Frey	4/17/79
154	H5 Beam Kicker Nose Bump and Coil Position Determination	JG Cottingham	5/1/79
155	SEB Emittance Measurements	H. Weisberg	10/17/79
156	Normalized Sum/Difference Monitor for Pick-up Electrode Amplifiers	R. Preston* L. Ahrens E. Gill	11/8/79
		(*Summer Student)	
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160	HEBT Steering (EBST)	J. Dabrowski F. Gill F. Martin S. Naase	1/8/80
161	Future AGS Control Stations	J.F. Skelly	1/16/80
162	Multichannel Display System Expansion	W. Frey	3/17/80
163	Effective Spill Length Monitor.	H. Weisberg	4/14/80

AGS DIVISION TECH NOTES

164	DATACON, the AGS Computer Control System	J. Curtiss	5/16/80
165	Sensitivity Requirement of the High Energy Polarimeter	Y.Y. Lee	5/30/80
166	AGS Wide Band Wall Current Monitor	L. Ahrens	6/2/80
167	Location of SEB Drive Sextupoles	D.A. Barge J.W. Glenn	12/16/80
168	More SEB Emittance Xeasurments	H. Weisberg	2/17/81
169	Buffer Reader Multiplex System	J. Dabrowski E. Gill S. Naase	3/4/81
170	Measurements of the Pulsed Field in the New H-5 Kicker Magnet	R. Nawrocky	5/20/81
171	AGS Internal Targets Operation Note	E. Gill	6/15/81
172	H5 Fast Kicker Magnet Pulser	W. Frey S. Ghoshroy J.G. Cottingham	7/1/81
173	Beam Profile Monitors for the AGS	E.L. Weisberg	7/8/81
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175	Gauss Clock Stabilization of the Main Magnet Power Supply	R. Lambiase	10/14/81
176	The "U" Line--1981		
177			
179	Flag Video Profile Generator	W. Frey	1/7/82
180	Eddy Current Effects of Septum-backleg Springs in the H-10 Magnet	I3. Rodger	3/9/82
181	The "QTUNE" Program -- The AGS Extracted Beam Transport Program	J.F. Ryan	8/4/82
182	Vacuum Chamber Resistor-Capacitor Networks	R.T. Sanders	10/13/82
183	The Dead Reckoning of the AGS Ring PUE System	L. Ahrens	11/24/82

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E. Rodger
December 13, 1982
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E. Raka
December 20, 1982
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Y.Y. Lee
April 8, 1983
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Y.Y. Lee and L.W. Smith
April 15, 1983
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Y.Y. Lee
August 8, 1983
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H.J. Halama and H-C Hseuh
October 24, 1983
190. Chromaticity Correction Sextupoles for the AGS
Y.Y. Lee
October 24, 1983
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B. Ewing
November 30, 1983
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R.L. Witkover
December 22, 1983
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R.J. Edwards
December 28, 1983
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W. Frey and R. Sanders
January 23, 1984
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L.A. Ahrens
February 1, 1984
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H-C Hseuh
February 8, 1984

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- 197 Pre-Conversion Cavity Ferrite Measurements
M. Plotkin
March 14, 1984
- 198 Measuring a Beam Emittance Using Linear Least-Square Analysis
J. Ryan
March 21, 1984
- 199 Spill Structure in the AGS 10 Hz - 100 Hz
L. Ahrens, J.W. Glenn, J. Keane, R. Sanders
April 24, 1984
- 200 Preliminary Study on the Operational Aspects and
Hardware Standardization of the AGS Controls
G. Baribaud*, D. Barton, A. Daneels,* J.P. Potier,* A. Soukas
June 21, 1984
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W. Frey
June 29, 1984
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Intersections Between Particle and Nuclear Physics
C. Conrad"
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- 203** Forces and Deflections on Neutrino Horn End Plates
L.E. Repeta
June 25, 1984
- 204** Calculation of Motor Speed of the Siemens M.G. Set
During a Pulse
A. Feltman
July 31, 1984
- 205** Neutrino Horn with Eccentric: Inner Conductor
L.E. Repeta
August 6, 1984
- 206** Some beam related rf topics (AD lectures 9/8-14/84)
Daniel Boussard, CERN SPS RF Group
October 1, 1984

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- 207 Resonance Jumping of Polarized Protons
S.Y. Lee, S. Tepikian, E.D. Courant
September 4, 1984
- 208 AGS Standard Package for Electronic Controls
K. Kohler
October 4, 1984
- 209 Bunch-to-Bunch Transverse Feedback for the AGS
E. Raka
October 12, 1984
- 210 Discussion on the new AGS control system
G. Baribaud*, D. Barton, A. Daneels*, R. Frankel, J.P. Potier*,
A. Stevens (*visitors from CERN PS Division)
December 6, 1984
- 211 Sextupoles, Dipole Kicker Correctors for Booster
S. Tepikian and S.Y. Lee
February 12, 1985
- 212 Maximum Limiting Apertures in the AGS
K.A. Brown and K.M. Brown
April 12, 1985
- 213 A Ripple Reduction Technique for Poly Phase Power Supplies
J. Funaro
April 19, 1985
- 214 Beam Line Ray Tracing
J. Ryan
April 26, 1985
- 215 Where are the AGS Magnets?
E.J. Bleser
May 20, 1985
- 216 Thyatron protect system for polarized proton modulators
K. Hillman
June 3, 1985
- 217
- 218 A.V. Feltmaz and J.W. Glenn
July 23, 1985

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- 119 Introduction to fields in hollow cylindrical pipes and cavity resonators for RFQ (Part -1)
M. Puglisi, 8/85
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Zhen-Guo Li and R.L. Witkover
October 2, 1985
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H.C. Hseuh and M. Tanaka
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- 232 Some Corrections for the AGS Booster
X.F. Zhao, S. Tepikian, S.Y. Lee
January 31, 1986
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E.D. Courant, Z. Parsa
January 15, 1986
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Z. Parsa
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Z. Parsa, F. Del.1
January 17, 1986
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Z. Parsa
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- 237 1985 Vertical Survey of the AGS
E. Bleser, K. Brown, R. Thern
January 23, 1986
- 238 The Heavy Ion Injection Line for the AGS Booster
R.C. Gupta and Y.Y. Lee
February 12, 1986
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February 12, 1986
- 240 Bias Current Geometry for the XGS Large Ferrite Test Stand
M.A. Goldman
February 14, 1986
- 241 Possible Design of a Volume H⁻ Ion Source
K. Prelec
February 18, 1986
- 242 Booster parameter list with 1,2,4,7 sextupole configurations
Z. Parsa, February 12, 1986
- 243 Chromaticity correction for the AGS booster with 1,2,4,7 sextupole configuration
E. Courant and Z. Parsa, March 5, 1986
- 244 Booster parameter list with 40 kV rf voltage
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- 245 The HITL Differential Analog Receiver
R. Witkover
March 18, 1986
- 246 FORTRAN Code Additions for Inclusion of Special Functions in MAD
E. Auerbach and J. Kats
April 1, 1986
- 247 Some Thoughts for the RF System of the AGS
M. Puglisi
April 4, 1986
- 248 RFQ Amplitude
S. Y. Zhang & A. J. McNeerney
April 9, 1986
- 249 Single Micro-Bunches from the Linac
J.M. Brennan
April 14, 1986
- 250 The 1985 Horizontal Survey
R.E. Thern
April 28, 1986
- 251 Study of the AGS Random Misalignment Error
S.Y. Lee
May 19, 1986
- 252 Resonance Jumping for Polarized Protons
X.F. Zhao and S.Y. Lee
May 21, 1986
- 253 The 1985 Horizontal Survey Part II, Magnets
R. Thern
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R. Thern
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H.C. Hseuh
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(A suggestion for a pre-Linac rf chopper)
J.M. Brennan
August 7, 1986
- 260** Accelerator physics program MARYLIE, Version 3
Zohreh Parsa, 8/11/86
- 261** A Proposal to Use a Charge-coupled Device in the Ionization Profile Monitor in the AGS
W. Schaffer (Summer Student)
August 12, 1986
- 262** A Proposal to Use a CCD in the External Beam Line for Low Intensity Beam Diagnostics
W. Schaffer (Summer Student)
August 12, 1986
- 263** Heavy Ion RF Power Amplifier Crowbar
W. Frey
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K.X. Brown & M. Tanaka
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P. Yamin, L. Ahrens, E. Auerbach, E. Raka, L. Ratner
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Y.Y. Lee
October 17, 1986
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W. Schaffer (Summer Student)
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J. Tuozzolo & W. Van Zwienen
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W. Frey and E. Tombler
February 3, 1987
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E. Bleser
February 4, 1987
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E. Auerbach, E. Bleser, R. Thom
2/25/87
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W. Frey, S. Naase, J. Woods
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A. Hershcovitch and Y.Y. Lee
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Y.Y. Lee and G.T. Danby
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- 280 Study of a New Extraction Scheme
Charles Steinbach (CERN Visitor)
May 4, 1987
- 281 RF Bandwidth Considerations
VHF Bunch Dilution System
W. Frey
June 22, 1987
- 282 The AGS Cold Cathode Gauge System
H.C. Hseuh, A. Feltman, W. Zhang, J. Gabusi
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ACCELERATOR DIVISION TECHNICAL NOTES
(AGS/AD/Tech. Notes)

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E. Bleser, E. Auerbach, S. Tanaka, R. Thern
August 12, 1987
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J. Kats and L. Ahrens
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J.M. Brennan and D. Kasha
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RC Networks used at the Insulated Flanges of the AGS Vacuum
Chambers
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- 287 CASIM On VAX
A.J. Stevens
August 25, 1987
- 288 Comments on the AGS Chromaticity: II
September 14, 1987
E. Bleser
- 289 1985-1987 Horizontal Survey & Realignment
R. Thern, E. Auerbach, E. Bleser, M. Tanaka
September 28, 1987
- 290 Some Comments on the AGS Vacuum System
(AGS Machine Physics Meeting, 10/16/87)
K. Welch, H.C. Hseuh, J.E. Tucrzollo
October 27, 1987
- 291 The AGS Complex as an Antiproton Filling Station
Y.Y. Lee and D.I. Lowenstein
November 9, 1987
- 292 Tune Measurements for the AGS and the Booster
W. van Asselt
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ACCELERATOR DIVISION TECHNICAL NOTES
(AGS/AD/Tech. Notes)

- 293 DATA SHEETS FOR THE AGS HIGH FIELD QUAD
E. Bleser and M. Tanaka
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- 294 DATA SHEETS FOR THE HIGH FIELD CHROMATIC SEXTUPOLES
E. Bleser and M. Tanaka
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- 295 TWO SCHEMES FOR A-LINE KICKER POKER SUPPLY
Jian-lin Mi
January 7, 1988
- 296 IMPROVEMENTS IN CASTIM; COMPARISON WITH DATA
A.J. Stevens
March 8, 1988
- 297 COMPUTER MODELS OF THE AGS, I: THE D.C. "BARE"
MACHINE AT HIGH FIELDS
E. Auerbach
March 7, 1988
- 298 DISCRETE FOURIER TRANSFORM DESCRIPTION, ERROR ANALYSIS,
AND ITS CURE
S-Y. Zhang, A. Soukas
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- 299 A high intensity hadron facility, AGS II
Y.Y. Lee, D.I. Lowenstein
April 25, 1988
- 300 The initial coqarison among three schemes of programmable
bipolar power supply used in the Booster correction system.
Jian-Lin Mi
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- 301 The LEBT test pulse generator
R.L. Witkover, Xiao-jiang Hou, A. Stillman
June 28. 1988
- 302 Quadrupole End-Field Effects: Going Beyond the Simple
Hard-Edge Approximation
S. Sidhu
July 22, 1988
- 303 CONVERSION EFFICIENCY OF A RING MAGNETRON IONIZER IN THE
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C. Meitzler
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(AGS/AD/Tech. Notes)

- 304 Effect of Power Tube Aging on Phase Shift in the AGS High Frequency, High Level RF System.
A. Zaltsman, M. Meth, S. Sadinsky, R. Sanders
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- 305 Transmission of H⁰ Through a Ring Magnetron Ionizer.
C. Meitzler
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- 306 F-10 House Phase Shift Transformer Short Circuit Tests.
K.B. Hughes
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- 307 The 1988 Vertical Survey of the AGS
E. Blaser
October 14, 1988
- 308 Remote Control of All Vacuum Sector Valves
J. Gajuski
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- 309 Computer Supported Tuning Method for MCR
J.F. Ryan
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- 310 Radiation Survey of the XGS Ring Using the Eberline Smart Portable Model ESP-2
S.V. Musolino and P.J. Zahra
November 14, 1988
- 311 The Alternating Current Power System X/R Ratio and Its Effect on Three-Phase Bridge Rectifier Operation
Kevin B. Hughes
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- 312 Subharmonic Ripple Reduction Limit in Multiphase Rectifiers
S.Y. Zhang and A.V. Soukas
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(AGS/AD/Tech. Notes)

- 313 Simulation of the PS Slow Extraction 62 With the Mad
 Program (CERN/PS-88-17)
 M. Tanaka
 January 26, 1989
- 314 The Maximum Theoretical Pressure Gradient in the XGS
 K. Welch
 J. Tuozzolo
 February 3, 1989
- 315 The Stretcher Vacuum System
 K.M. Welch and J.E. Tuozzolo
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- 316 The Quality Factor and Other Considerations
 in Radiation Protection at the AGS
 S. Musolino
 February 16, 1989
- 317 Device Names for the AGS Complex
 K. Reece
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- 318 Brief Comments on Test Results of Both Metal and
 Elastomer Vacuum Seals
 K.M. Welch, G.T. McIntyre, J.E. Tuozzolo, 3.5. Pate
 March 30, 1989
- 318 Addendum A July 3, 1990
- 319 A Permanent Magnet Sextupole
 C.R. Meitzler
 April 24, 1989
- 320 The AGS High Field Vertical Bump Magnets
 E. Auerbach, E. Bleser, H. Brown
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- 321 Effective Placement of Stopband Correction Elements in an
 AGS Lattice
 C.J. Gardner
 May 30, 1989 -- REVISED September 29, 1989
- 322 Comments on Continuous, Asymmetry Measurement During
 Polarized Proton Acceleration
 H. Sato (KEK)
 June 9, 1989

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(AGS/AD/Tech. Notes)

- 323 Simulating Thyristor Converter
 S.Y. Zhang
 August 1, 1989
- 324 Simple Approximation for Synchrotron Frequency
 J.M. Kats
 August 2, 1989
- 325 Asynchronous Transfer of Beam Between Accelerators
 J.W. Glenn
 August 8, 1989

- 326 An Alternative to \vec{H}^2 Injection
 K. Prelec
 August 11, 1989

- 327 Sestupole Focusing of Cold Atomic Beams
 C.R. Meitzler
 September 1, 1989

- 328 Pulse-to-Pulse Modulation at the AGS Complex
 D.S. Barton
 September 1, 1989

- 329 AGS Injection Studies with the Fast Chopper
 J.M. Brennan, L. Ahrens, and J. Alessi
 September 12, 1989

- 330 Emittance of the PONI-1 Cesium Gun
 C.R. Meitzler
 September 12, 1989

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- 331 The Vector Potential In Accelerator Magnets
 C.J., Gardner
 October 11, 1989

- 332 Eddy Currents in the Transition Jump Quadrupole
 Vacuum Chambers
 A. Feltman, J. Funaro, L. Ratner, W. van Asselt, S. Yamin
 November 15, 1989

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(ACS/AD/Tech. Notes)

ACCELERATOR DIVISION TECHNICAL NOTES
(AGS/AD/Tech. Notes)

- No. 341 Modeling Backleg Winding Bumps with the BEAM Program
C.J. Gardner
August 21, 1990
- No. 342 A Method for Preparing Input Files for the POISSON Codes
A. Kponou
August 22, 1990
Corrigendum - November 19, 1991
- No. 343 Magnetostatic Analysis of the AGS H-10 Septum Magnet
M.A. Goldman
August 24, 1990
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- No. 344 Beam Ellipse Transport in the HITL
C.J. Gardner
October 12, 1990
- No. 345 Recommissioning an Upgraded Polarized Beam Facility
L.G. Ratner
November 1, 1990
- No. 346 RHIC RF System Noise Requirements
E.C. Raka
November 2, 1990
(also RHIC-AD-25)
- No. 347 The New Fast Extraction System (NewFEB) at the AGS
(The Conceptual Design of the New Fast Extraction System
for the AGS g-2 Experiment, RHIC Injection, and FEB)
M. (Sanki) Tanaka
March 15, 1991
- No. 348 Two Models for a Stationary Bunch in Longitudinal
Phase Space
J. M. Kats
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(AGS/AD/TECH. NOTES)

- No. 349 Impedance of Booster Pickup Electrodes: Calculations and Comparison with Measurements
I-I. Blaskiewicz
April 23, 1991
- No. 350 Algorithms for Recovering Phase Density
J.M. Kats
May 20, 1991
- No. 351 Longitudinal Motion - Data Presentation
J.-P. Deng
May 28, 1991
- No. 352 Status of the AGS Transverse Damper
"The Damper Crew" (P. Yamin, P. Cameron, Y. Y. Lee, S. Oerter, E. Raka, V. Wong, Dexun Xi, A. Zhang)
June 14, 1991
- Kc. 353 Voltage Requirements for the Transverse Dampers
E. Raka
July 19, 1991
- Kc. 354 Multiturn Injection with Coupling
T. Roser
November 7, 1991
- SC. 355 Another Look at Apertures in the AGS
P. Carolan, K.A. Brown, J. Zebuda, K.M. Brown
November 15, 1991
- No. 356 Solutions of Laplace's Equation and Multipole Expansions with a Curved Longitudinal Axis
S. Mane
November 21, 1991
- NC. 357 Decoupled Beam Line Tuning
T. Roser
January 3, 1992
- No. 358 Introduction to the Access Control System and the "Security" PC Program
J.F. Ryan
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(AGS/AD/TECH. NOTES)

- NO. **359** Siemens Upgrade Control System
N. Schumburg
March 26, 1992
- No. **360** Device Names for the AGS Complex
K Zeno
April 14, 1992
- No. **361** Selection of the optimum charge state from an EBIS
K. Prelec
June 4, 1992
- No. **363** Thoughts on Multiple Pulse Injection into the
AGS Booster from an EBIS Source
Y.Y. Lee
July 6, 1992
- No. **363** The Design of the Dipole Pick-Up Coils for use
with the AGS Gauss Clock
A. Warner and W. VanZwienen
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- NO. 364 Synchrotron Sideband and Spin Resonances in a
Proton Storage Ring
S . R. Mane
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- No. 365 New FEB: "SBE Capability for the A-D Line
M. (Sanki) Tanaka
September 18, 1992
- NO. 366 Wigglers Snakes for RHIC
M. Conte (Universita di Genova, Italy) & A. Luccio
September 21, 1992
- No. **367** BTA Stripping Foil Studies
T. Roser
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- No. **368** Using the Minimal Normal Form Method With Discrete Maps
S.R. Mane and W.T. Weng
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- No. **369** TEVATRON STUDIES REPORT
G. Jackson, D. McConnell, B. Fellenz--Fermilab
E. Rak.a, S.P. Yamin--BNL
December 3, 1992
- No. **370** A BROADBAND, HIGH ACCURACY PHASE SHIFTER
D. Ciardullo
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- No. **371** CONTROLS FOR THE AGS RF UPGRADE SYSTEM
A. Zaltsman
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- No. **372** Spectrum Analysis in Beam Diagnostics
S.Y. Zhang and W.T. Weng
April 7, 1993
- No. **373** Study of the Booster Injection at KEK
(A Talk Given at the AGS Machine Physics Meeting
held on February 5, 1993)
Y. Shoji
- No. **374** COMBINED FUNCTION MAGNETS
W. Meng and M. Tanaka
April 12, 1993
- No. **375** Bunched Beam Longitudinal Instability--
Coherent Dipole Motion
S.Y. Zhang and W.T. Weng
April 15, 1993
- No. **376** Minimizing Linear Coupling in the AGS with Skew Quads
H. Huang and S.Y. Lee---Indiana University, Bloomington, IN;
L.G. Ratner, Brookhaven National Laboratory, Upton, NY
May 28, 1993
- No. **377** TRANSVERSE DAMPING ALGORITHMS
T. Roser
July 13, 1993
- No. **378** BUCKET PARAMETERS AND BUNCHING FACTOR FOR DOUBLE RF SYSTEM
J.M. Kats
August 4, 1993
- No. **379** Analysis of the Optical Limitations of a Beam Monitor for
the RHIC Injection Line
Be-Su Lee (visitor)
August 26, 1993

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(AGS/AD/Tech. Notes)

- No. 380 TRANSVERSE INSTABILITY WITH LARGE SPACE CHARGE TUNE SHIFT
M. Blaskiewicz and W.T. Weng
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- No. 381 On Solutions of Sacherer Integral Equation
S.Y. Zhang and W.T. Weng
October 12, 1993
- No. 382 Accountable Key Systems Suggested Design Guide
J. Spinner
October 29, 1993
- No. 383 Source options for RHIC preinjectors
J. Alessi, K. Prelec
October 25, 1993
- No. 384 Evolution of a Workstation-Based Control System at the
BNL AGS -- The Path to Standards Compliance
J. F. Skelly
November 5, 1993
- No. 385 Simulation of Linear Coupling Resonance Traversal
in the AGS Booster
C.J. Gardner
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- No. 386 A Fast Envelope Detector
D. Ciardullo
December 29, 1993
- No. 387 Resonance Excitation in the AGS Booster Due to
Closed Orbit Distortion in Multipole Magnets
C.J. Gardner
January 19, 1994
- No. 388 Magnetic 'Field Measurements of the SuperEBIS
Superconducting Magnet
A. Hershcovitch, A. Kponou, R. Clipperton, W. Hensel
January 24, 1994
- No. 389 MeVVA Sou-rce of Primary Metallic Ions for SuperEBIS
A. Hershcovitch, A. Kponou, D. McCafferty
January 25, 1994
- No. 390 A Time-of--Flight Spectrometer for SuperEBIS
A. Kponou, A. Hershcovitch, D. McCafferty, F. Usack
January 25, 1994

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(AGS/AD/Tech. Notes)

- No. 391 Stopband Correction of the AGS Booster--Summary of Correction Parameters and Harmonic Analysis of Imperfections
Y. Shoji*and C. Gardner
March 16, 1994 (*KEK)
- No. 392 Tune and Chromaticity of the AGS vs. Quad Currents
Calculated Plots and Fitting Coefficients Code QFIT
A. Luccio
March 31, 1994
- No. 393** NewFEB: SBE to the SEB Line Using FKG10
M. Tanaka
April 7, 1994
- No. 394** Improvement of the AGS AGC Loop
E. Onillon and M. Brennan
April 8, 1994
- No. 395** A 3/2 Lambda Bump to Correct AGS Orbit Distortion at the K17 Gamma-Tr Quad
E.H. Auerbach
May 12, 1994
- No. 396** **Power Controller for AGS Main Magnet Power Supply**
M. Meth, J. Sandberg, J. Spinner
June 6, 1994
- No. 397 Injection matching in the AGS emittance growth
A. Luccio
June 23, 1994
- No. 398 Recursive Transverse Damping Algorithms
T. Roser
August 11, 1994
- No. 399 Field of a Helix
A. Luccio
August 15, 1994
- No. 400 Longitudinal Mode Coupling
S. Y. Zhang and W. T. Weng
August 22, 1994
- No. 401** Damping Coherent Quadrupole Oscillations in the AGS
E. Onillon and J.M. Brennan
September 20, 1994
- No. 402** UNIX Upgrade for AGS Control: Workstations
J. T. Morris
October 11, 1994

ACCELERATOR DIVISION TECHNICAL NOTES
(AGS/AD/Tech. Notes:)

No. 403

Hollow

Therapy

Y.Y. Lee
December 20, 1994

No. 406

Proposal on Spin Physics Using the RHIC Polarized Collider
M. Beddo, D. Grosnick, D. Lopiano, D. Hill, H. Spinka,
D. Underwood, A. Yokosawa, ANL; G. Bunce, A. Carroll, E. Courant,
R. Fernow, Y.Y. Lee, D. Lowenstein, Y. Makdisi, L. Ratner
T. Roser, M. Tannenbaum, BNL; J.B. Carroll, T. Hallman,
G.J. Igo, UCLA; N. Toernqvist, U. Helsinki; N. Akchurin,
Y. Onel, U. Iowa; S.Y. Lee, Indiana U.; S. Hiramatsu, Y. Mori,
H. Sato, KEK; L. Madansky, R. Welsh, Johns Hopkins U.;
H. Enyo, K. Imai, A. Masaike, Kyoto U.; J. Soffer, Centre
de Physique Theorique, Marseille; R. Jaffe, MIT; A. Bravar,
M. Conte, A. Penzo, M. Pusterla, P. Schiavon, Genova-Padova-
Trieste U.

August 14, 1992

No. 407

Conceptual Design for the Acceleration of Polarized Protons in
RHIC
K. Brown, G. Bunce, E. Courant, R. Fernow, S.Y. Lee, A. Luccio,
Y. Makdisi, S. Mane, L. Ratner, T. Roser, H. Spinka, S. Tepikian,
A.G. Ufimtsev, D. Underwood
May 24, 1993

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Proposal on Spin Physics Using the RHIC Polarized Collider -
Update
M. Beddo, D. Grosnick, D. Lopiano, D. Hill, H. Spinka, D. Under-
wood, A. Yokosawa, ANL; G. Bunce, E. Courant, R. Fernow,
Y.Y. Lee, D. Lowenstein, A. Luccio, Y. Makdisi, L. Ratner, T. Rose
M. Tannenbaum, BNL; J.B. Carroll, T. Hallman, G.J. Igo, UCLA;
N. Toernqvist, Helsinki; N. Akchurin, Y. Onel, Iowa; S.Y. Lee,
Indiana; S. Hiramatsu, T. Mori, H. Sato, KEK; L. Madansky,
R. Welsh, Johns Hopkins; H. Enyo, K. Imai, A. Masaike, Kyoto;
J. Soffer, Marseille; R. Jaffe, MIT; A. Bravar, M. Conte,
A. Penzo, M. Pusterla, P. Schiavon, Italy; J. Collins,
S. Heppelmann, G. Ladinsky, E. Minor, R. Robinett, Penn State;
A.S. Akimenko, Yu. I. Arestov, N.I. Belikov, B.V. Chujko, A.M.
Davidenko, A.A. Derevschikov, S.V. Erin, O.A. Grachov, A.S.
Konstantinov, I.V. Kotov, Yu. A. Matulenka, A.P. Meschanin, A.I.
Mysnick, S.B. Nurushev, A.V. Pavlinov, A. Yu. Polyarush, A.I.
Ronzhin, V.L. Rykov, V.A. Sergeev, K.E. Shestermanov, L.F. Soloviev,
O.D. Tsay, A.G. Ufimtsev, A.N. Vasiliev, IHEP; A.Y. Efremov, JINR;
M. Werlen Lausanne

ACCELERATOR DIVISION TECHNICAL NOTES
(AGS/AD/Tech. Notes)

- No. **409** Barrier Cavity Longitudinal Dynamics
M. Blaskiewicz
January 13, 1995
- No. **410** Preliminary System Specification for the AGS Loss Monitor Upgrade
E. Beadle
January 20, 1995
- No. 411 The AGS BPM System Upgrade
D.J. Ciardullo and J.M. Brennan
January 31, 1995
- No. 412 .. Power Factor Correction and Harmonic Filters at the AGS
M. Meth and J. Sandberg
January 31, 1995
- No. **413** Some Options for Pion and Muon Focusing in the AGS g-2 and
Neutrino Oscillation Experiments (and possible new focusing
and cooling schemes for a muon collider)
A. Hershcovitch
February 27, 1995
- No. **414** Radiation Protection Studies During High Intensity Running at AGS
Radiation Exposure Around the AGS Ring and in the SEB Experimental
Areas
E. Lessard, K. Reece, and R. Miltenberger
March 14, 1995
- No. **415** Upgrade of Booster FF Power Amplifier for Proton Cavity
M. Meth
May **23**, 1995
- No. **416** Uranium Beams in RHIC: Four MeVVA-Based Preinjection Approaches
A. Hershcovitch and B. Johnson
August 11, 1995
- No. **417** Heavy Ion Parameters for 1995
C.J. Gardner
September 1, 1995
- No. **418** Observations of Secondary Emission Chamber Efficiency Degradation
for Very High Intensity Slow Extracted Beams
K. A. Brown
August 28, 1995

ACCELERATOR DIVISION TECHNICAL NOTES
(AGS/AD/Tech. Notes)

- No. 419 Numerical Investigation of Spin Resonance Crossing with
Siberian Snakes
V. Ptitsin (BINP, Novosibirsk, Russia)
September 21, 1995
- No. 420 The Bucket and the Bunch with a 2nd RF Harmonic
A. Luccio
October 18, 1995
- No. 421 The J-10 Dump Bump
E. Bleser.
October 23, 1995
- No. 422 Transverse Bunched Beam Instability
S. Y. Zhang
November 14, 1995
- No. 423 Determining the Center of the AGS High Field Sextupole String
H. Calvani
January 12, 1996
- No. 424 The Dipole Fields of the AGS Main Magnets
R. Thern and E. Bleser
January 26, 1996
- No. 425 Bumps Models Primer
J. Niederer
February 6, 1996
- No. 426 Modeling of Micro-Bunching During AGS Slow Extraction
J.W. Glenn
February 20, 1996
- No. 427 Notes on Coupled Motion in a Linear Periodic Lattice and
Applications to Booster Injection
C.J. Gardner
February 22, 1996
- No. 428 Beam Loss Issues for AGS High Intensity HEP
S. Y. Zhang
March 5, 1996
- No. 429 The Quadrupole and Sextupole Fields of the AGS Main Magnets
R. Them, E. Bleser
March 4, 1996

ACCELERATOR DIVISION TECHNICAL NOTES
(AGS/AD/Tech. Notes)

- No. 430 The Parameters of the Bare AGS
E. Bleser
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- No. 431 BNL Mad Program Notes
BTA Lattice Matching
J. Niederer
March 18, 1996
- No. 432 Some Views on the Structure Layout of the A5
Kicker Power Supply Discharging Housing
Jian-Lin Mi
April 3, 1996
- No. 433 BNL MAD Program Notes
Tracking Plots
J. Niederer
April 19, 1996
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Field Tracking Commands
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- No. 436 BNL MAD Program Notes
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- No. 437 AGS Modifications for High Transition Energy
E.D. Courant and D. Trbojevic
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(AGS/AD/Tech. Notes)

- 438 Envelope Parameters for Linear Coupled Motion in Terms of the One-Turn Transfer Matrix
C.J. Gardner
July 10, 1996
- 439 Projections of Beam Distributions
C.J. Gardner
July 11, 1996
- 440 More BTA Lattice Matching
J. Niederer
August 12, 1996
- 441 What If Someone Were to Saw the Two BTA Bends into Halves?
J. Niederer
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- 442 Some Calculations of Dispersion in the Booster
C.J. Gardner
August 30, 1996
- 443 BNL MAD Program Notes:
Survey Matching
J. Niederer
September 4, 1996
- 444 Shielding for the AGS J10 Scraper
E.J. Bleser
September 13, 1996
- 445 FY96 SEB Emittance Measurements
K. Brown, M. Blaskiewicz, H. Brown, K. Reece
October 8, 1996
- 446 A Vertical Bump at the J10 Scraper
E. Bleser
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- 447 MAD Simulation: HEP/SEB Extraction (FY 1996)
M. Tanaka
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(AGS/AD/Tech. Notes)

- 448 Heavy Ion Parameters for 1996
C.J. Gardner
October 10, 1996
- 449 Calculation of Incoherent Space Charge Tune Spread
S.Y. Zhang, T. Roser, W.T. Weng
October 11, 1996
- 450 Overview of the New AGS Octupole System
M. Blaskiewicz
October 24, 1996
- 451 Space Charge Effect and the AGS Injection Loss
S. Y. Zhang
October 29, 1996
- 452 Revisiting the Dead Reckoning of the AGS Orbit Measuring System
L. Ahrens
October 30, 1996
- 453 FEB/SBE: Commissioning with Au Beam and Run for the FY 1996
AtR TL Commissioning
M. Tanaka
November 4, 1996
- 454 BNL MAD: Harmonic Analysis Commands
J. Niederer
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- 455 AGS Tune Quad Production Measurements
E. Bleser
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- 456 BNL MAD: Harmonic Analysis Based Orbit Correction Commands
AGS Booster Applications
J. Niederer
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- 457 Radiation Impact on VME Station Memory
N. Schumburg
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(AGS/AD/Tech. Notes)

- 458 FEB/V(p): The FY 1996 Commissioning with Proton Beam and Run for the V-Line and V-Target Commissioning
M. Tanaka and L. Ahrens
March 5, 1997
- 459 AGS PUE Geometry Factor and Normalization
L. Ahrens
March 5, 1997
- 460 Is the Special Ejection (Cooling Water) System a Major Path by Which New Water Activation Enters the Main Magnet Cooling System?
L.A. Ahrens
March 11, 1997
- 461 Calculated Formulas for Controlling the AGS Chromaticity
E. Bleser
April 23, 1997
- 462 The Capacitance of Ferrite Loaded Cavities
M. Yoshii, M. Meth, R. Spitz
April 23, 1997
- 463 Upgrade to Version 7C
J. Niederer
July 14, 1997
- 464 Calculated Formulas for Controlling the AGS Tune
E. Bleser and M. Musossafiti
July 22, 1997
- 465 The Booster Stopband Correction System - 1997
C. J. Gardner
July 22, 1997
- 466 Heavy Ion Formulation
S. Y. Zhang
July 29, 1997
- 467 BNL Electron Beam Test Stand
A. Pikin, J. Alessi, E. Beebe, A. Kponou, K. Prelec, L. Syndstrup
July 30, 1997

468 - not used.

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(AGS/AD/Tech Notes)

- 469 **Emittance** Blow-up from A20 Multi-wire in the AGS
M. J. Syphers
July 22, 1997
- 470 Booster Residual Activation: August 1997
L. Ahrens
August 25, 1997
- 471 Overview of the UI Toolkit
T. D'Ottavio
October 31.1997
- 472 Proposals for Ripple Reduction for the AGS Main Magnet Power Supply
A. Soukas
December 19. 1997
- 473 Heavy Ion Parameters for 1997-98, and Some Preliminary Parameters for BAF
C.J. Gardner
November 6, 1997
- 474 High Momentum BTA Transfer
S.Y. zhang
January 8. 1998
- 475 Review of the Booster Dump Shielding
E. J. Bleser
January 28. 1998
- 476 Formulae for the PIP Analysis of Linear Coupling
C. J. Gardner
March 30. 1998
- 477 Secondary Electron Production in Booster Gold Beam Injection
S.Y. zhang
May 27, 1998
- 478 Concept of a Nuclear Plant based on the Fusion Reaction of Protons with Ions of Boron
A. G. Ruggiero
July 15. 1998
- 479 Some Notes on Using PIP with Proton Beam (1998)
C. J. Gardner
August 21. 1998
- 480 Simulation of Booster Proton Injection • Longitudinal
S.Y. zhang
August 1998
- 481 The Circular RFQ Storage Ring
A. G. Ruggiero
October 1998

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- 482 **Electron Impact Capture and Ionization Cross Sections**
S.Y. Zhang
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- 483 Beam Polarization and the Tuning of the Vertical **Harmonics** in the Booster
L. Ahrens
April 20, 1999
- 484 Electronic Beams and Z-Pinches as Plasma Strippers **and** Lens for Low **Energy** Heavy Ions
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